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This book constitutes the thoroughly refereed post-conference proceedings of the 4th International Symposium on Applications of Graph Transformations, AGTIVE 2011, held in Budapest, Hungary, in October 2011. The 13 revised full papers presented together with 2 invited talks, 2 application reports and 3 tool demonstration papers were carefully selected from 36 submissions during two rounds of reviewing and improvement. The papers are organized in topical sections on invited talk abstracts, model-driven engineering, graph transformation applications, tool demonstrations, graph transformation exploration techniques, graph transformation semantics and reasoning, application reports and bidirectional transformations.

'Industrial, medical and environmental applications of microorganisms' offers an excellent opportunity to learn about new insights, methods, techniques and advances in applied microbiology. It is useful not only for those traditionally involved in this research area but for everyone that needs to keep up with this diverse discipline. The articles are written by researchers from around the world and focus on seven themes: - Environmental microbiology -Agriculture, soil and forest microbiology -Food microbiology -Industrial microbiology - Medical microbiology -Biotechnologically relevant enzymes and proteins - Methods and techniques - education This book contains a compilation of papers presented at the V International Conference on Environmental Industrial and Applied Microbiology (BioMicroWorld2013), held in Madrid, Spain, in October 2013.

In this reputable book Professor Morroni has constructed an insightful framework of three decisive factors for organizational coordination: capabilities, transaction, scale-scope. Based on these, he has knitted a splendid tapestry of theoretical and empirical information. This collection must be a standard for the theory of the firm. Yuji Aruka, Chuo University, Japan Organisations, networks and firms are three of the most dynamic areas of economic research. This timely book synthesises these areas in order to analyse emergent phenomena such as spatial clustering, outsourcing, relational complexity and radical technological innovation. A combination of authoritative literature reviews, novel theoretical developments and interesting case study applications makes this book essential reading for both new and established scholars in the field. Mark Casson, University of Reading, UK In recent years, applied studies have shown widespread, profound and increasing heterogeneity across firms in terms of their strategy, organization arrangement and performance. This book investigates the diversity of business firms, offering a picture of the different organizational settings they adopt in their endeavour to cope with increasing competitive pressure. The book addresses critical theoretical issues surrounding corporate governance, organizational design and cooperative relations among firms. Moreover, it provides new evidence on the various forms of outsourcing that are playing an increasingly important role as a consequence of globalization. The contributions collected in this book stress the emergence of a trend towards a reorganization of production that can enhance the transmission, development and maintenance of knowledge in order to sustain long-run competitive advantage. Providing original and pertinent empirical evidence, this book will attract interest from scholars and postgraduate students studying the economics and organization of the firm. It will also be of value to managers who wish to

understand new developments in the organizational settings of business firms with particular reference to corporate governance, organizational design, cooperative relations, outsourcing and de-localization.

Erfolgreiche marktorientierte Unternehmensführung zeichnet sich heute durch ein frühzeitiges Erkennen veränderter Markt- und Wettbewerbssituationen aus, um proaktiv das Marktgeschehen zu beeinflussen. Immer komplexere und dynamischere Marktbedingungen stellen die Unternehmensführung hierbei vor eine besondere Herausforderung. Die Erfassung fundierter und aktueller Erkenntnisse über die Reaktionen der Marktteilnehmer auf der Grundlage moderner computergestützter Verfahren der Informationsgewinnung und -auswertung bilden eine notwendige Voraussetzung zur Gestaltung bedürfnisgerechter Angebote und Erzielung von langfristigen Wettbewerbsvorteilen. Der Marketingentscheider muß in diesem Zusammenhang die "richtigen Programmfragen" stellen und die Käuferverhaltens- und Marketingforschung die "richtigen Antworten" finden. Die Marketing- und Käuferverhaltensforschung sind zwei komplementäre Bereiche, die in vielfältiger Beziehung zueinander stehen. Die wissenschaftliche Erforschung der zentralen Determinanten des Kaufverhaltens setzt geeignete Marketingkonzepte und Auswertungsverfahren der Marketingforschung voraus. Die Marketingforschung bedarf ihrerseits bei der Bildung und Prüfung von Hypothesen einer Theorieunterstützung. Diesem Grundgedanken folgt der Aufbau des in der zweiten Auflage neu bearbeiteten Buches. Im ersten Kapitel werden ausgehend von der Thematisierung des Stellenwertes der Informationen im Marketing-Management die zentralen Entscheidungstatbestände der Marketingforschung und die Beziehungen zur Käuferverhaltensforschung dargestellt. Das zweite Kapitel befaßt sich mit den zentralen Ansätzen zur Erklärung und Prognose des Kaufverhaltens von Konsumenten und Organisationen. Darauf aufbauend folgt eine Darstellung der Methoden der Informationsgewinnung und -auswertung der Marketingforschung. Dabei werden insbesondere die unterschiedlichen Zielsetzungen, Verfahrensgrundlagen und Anwendungsprobleme aufgezeigt und abschließend unter einer aggregierten Perspektive quantitative und qualitative Methoden der Absatzprognosen erörtert.

In this volume, I have collected several papers which were presented at the international conference called "Venice-2/Symposium on Applied and Industrial Mathematics". Such a conference was held in Venice, Italy, between June 11 and 16, 1998, and was intended as the follow-up of the very successful similar event (called "Venice-1/Symposium on Applied and Industrial Mathematics"), that was also organized in Venice in October 1989. The Venice-1 conference ended up with a Kluwer volume like this one. I am grateful to Kluwer for having accepted to publish the present volume, the aim of which is to update somehow the state-of-the-art in the field of Applied Mathematics as well as in that of the nowadays rather more developed area of Industrial Mathematics. The most of the invited (key-note) speakers contributed to this volume with a paper related to their talk. There are, in addition, a few significant contributed papers, selected on the basis of their quality and relevance to the present-time research activities. The topics considered in the conference range from rather general subjects in applied and numerical analysis, to more specialized subjects such as polymers and disordered media, granular flow, semiconductor mathematics, superconductors, elasticity, tomography and other inverse problems, financial modeling, photographic sciences, etc. The papers collected in this

volume provide a selection of them. It is clear from the previous list that some attention has been paid to relatively new and emerging fields.

In this original book on model predictive control (MPC) for power electronics, the focus is put on high-power applications with multilevel converters operating at switching frequencies well below 1 kHz, such as medium-voltage drives and modular multi-level converters. Consisting of two main parts, the first offers a detailed review of three-phase power electronics, electrical machines, carrier-based pulse width modulation, optimized pulse patterns, state-of-the art converter control methods and the principle of MPC. The second part is an in-depth treatment of MPC methods that fully exploit the performance potential of high-power converters. These control methods combine the fast control responses of deadbeat control with the optimal steady-state performance of optimized pulse patterns by resolving the antagonism between the two. MPC is expected to evolve into the control method of choice for power electronic systems operating at low pulse numbers with multiple coupled variables and tight operating constraints it. Model Predictive Control of High Power Converters and Industrial Drives will enable to reader to learn how to increase the power capability of the converter, lower the current distortions, reduce the filter size, achieve very fast transient responses and ensure the reliable operation within safe operating area constraints. Targeted at power electronic practitioners working on control-related aspects as well as control engineers, the material is intuitively accessible, and the mathematical formulations are augmented by illustrations, simple examples and a book companion website featuring animations. Readers benefit from a concise and comprehensive treatment of MPC for industrial power electronics, enabling them to understand, implement and advance the field of high-performance MPC schemes.

Cyber Security for Industrial Control Systems: From the Viewpoint of Close-Loop provides a comprehensive technical guide on up-to-date new secure defending theories and technologies, novel design, and systematic understanding of secure architecture with practical applications. The book consists of 10 chapters, which are divided into three parts. The first three chapters extensively introduce secure state estimation technologies, providing a systematic presentation on the latest progress in security issues regarding state estimation. The next five chapters focus on the design of secure feedback control technologies in industrial control systems, displaying an extraordinary difference from that of traditional secure defending approaches from the viewpoint of network and communication. The last two chapters elaborate on the systematic secure control architecture and algorithms for various concrete application scenarios. The authors provide detailed descriptions on attack model and strategy analysis, intrusion detection, secure state estimation and control, game theory in closed-loop systems, and various cyber security applications. The book is useful to anyone interested in secure theories and technologies for industrial control systems.

Presents the proceedings of two workshops on productivity measurement and analysis, which brought together representatives of statistical offices, central banks and other officials involved with the analysis and measurement of productivity at aggregate and industry levels.

No Marketing Blurb

These are the WTO's authorized and paginated reports in English. They are an essential addition to the library of all practising trade lawyers and a useful tool for students and academics worldwide working in the field of international economic or trade law. DSR 2019: Volume XI contains the panel and Appellate Body reports on "Korea - Anti-Dumping Duties on Pneumatic Valves from Japan" (WT/DS504).

Volume 1: Econometric General Equilibrium Modeling presents an econometric approach to general equilibrium modeling

of the impact of economic policies. Earlier approaches were based on the "calibration" of general equilibrium models to a single data point. The obvious disadvantage of calibration is that it requires highly restrictive assumptions about technology and preferences, such as fixed input-output coefficients. These assumptions are contradicted by the massive evidence of energy conservation in response to higher world energy prices, beginning in 1973. The econometric approach to general equilibrium modeling successfully freed economic policy analysis from the straitjacket imposed by calibration. As a consequence of changes in energy prices and new environmental policies, a wealth of historical experience has accumulated over the past two decades. Interpreted within the framework of the neoclassical theory of economic growth, this experience provides essential guidelines for future policy formation. Volume 2: Energy, the Environment, and Economic Growth presents a new econometric general equilibrium model of the United States that captures the dynamic mechanisms underlying growth trends and responses to energy and environmental policies. Jorgenson uses the model to analyze the impacts of environmental regulations on US economic growth and tax policies for controlling U.S. emissions of carbon dioxide.

In today's modernized market, many fields are utilizing internet technologies in their everyday methods of operation. The industrial sector is no different as these technological solutions have provided several benefits including reduction of costs, scalability, and efficiency improvements. Despite this, cyber security remains a crucial risk factor in industrial control systems. The same public and corporate solutions do not apply to this specific district because these security issues are more complex and intensive. Research is needed that explores new risk assessment methods and security mechanisms that professionals can apply to their modern technological procedures. Cyber Security of Industrial Control Systems in the Future Internet Environment is a pivotal reference source that provides vital research on current security risks in critical infrastructure schemes with the implementation of information and communication technologies. While highlighting topics such as intrusion detection systems, forensic challenges, and smart grids, this publication explores specific security solutions within industrial sectors that have begun applying internet technologies to their current methods of operation. This book is ideally designed for researchers, system engineers, managers, networkers, IT professionals, analysts, academicians, and students seeking a better understanding of the key issues within securing industrial control systems that utilize internet technologies.

Applied and Industrial Mathematics, Venice—2, 1998 Selected Papers from the 'Venice—2/Symposium on Applied and Industrial Mathematics', June 11–16, 1998, Venice, Italy Springer Science & Business Media

This book constitutes the refereed proceedings of the 16th International Conference on Product-Focused Software Process Improvement, PROFES 2015, held in Bolzano, Italy, in December 2015. The 18 revised full papers presented

together with 10 short papers and 18 workshop papers were carefully reviewed and selected from 50 submissions. The papers are organized in topical sections on lessons learned from industry-research collaborations; instruments to improve the software development process; requirements, features, and release management; practices of modern development processes; human factors in modern software development; effort and size estimation validated by professionals; empirical generalization; software reliability and testing in industry; workshop on processes, methods and tools for engineering embedded systems; workshop on human factors in software development processes; and workshop on software startups: state of the art and state of the practice.

This book contains papers presented in the main track of IITI 2018, the Third International Scientific Conference on Intelligent Information Technologies for Industry held in Sochi, Russia on September 17–21. The conference was jointly co-organized by Rostov State Transport University (Russia) and VŠB – Technical University of Ostrava (Czech Republic) with the participation of Russian Association for Artificial Intelligence (RAAI). IITI 2018 was devoted to practical models and industrial applications related to intelligent information systems. It was considered as a meeting point for researchers and practitioners to enable the implementation of advanced information technologies into various industries.

Nevertheless, some theoretical talks concerning the state-of-the-art in intelligent systems and soft computing were also included into proceedings.

This volume presents a comprehensive assessment of the economic effects of the emerging information and communication technologies associated with a knowledge-based economy, and looks at how knowledge is increasingly treated as a product in its own right. An original framework is developed to comprehend these fundamental shifts, based on three bodies of knowledge: * the economics of path dependence and of historical time as they are elaborated in the economics of new technologies * economic topology based on the methodology of network analysis * the new economics of knowledge and the concept of localized technological change This book provides a unified analytical framework for the study of the transition of advanced economic systems towards a knowledge-based economy.

This book contains selected papers on the language, applications, and environments of CafeOBJ, which is a state-of -the-art algebraic specification language. The authors are speakers at a workshop held in 1998 to commemorate a large industrial/academic project dedicated to CafeOBJ. The project involved more than 40 people from more than 10 organisations, of which 6 are industrial. The workshop attracted about 30 talks and more than 70 attendees. The papers in the book however, are either heavily revised versions presented at the workshop, to reflect recent advancements or research; or completely new ones, written especially for this book. In this regard, the book is not a usual postpublication after a workshop. Also, although it is a compendium of papers that are related to CafeOBJ, the book is not a manual, reference, or tutorial of CafeOBJ. Probably the best description is that it is a collection of papers that investigate how to use, or to make it easy to use, CafeOBJ. Reflecting the diverse

nature of the project and its participants (most of the authors are participants to the project), the papers, put together, offer a comprehensive picture from this methodological perspective. Some papers deal with various advanced aspects of the language, such as rewriting logic and behavioural logic. For rewriting logic, a couple of significant applications were reported. In particular, UML, now considered de facto standard language for modelling systems, is the subject of one paper. For behavioural logic, new methodological guidelines are presented. Some papers shed new light on a more traditional paradigm in the language; order-sorted equational specifications. One paper, in particular, deal with a way to associate CafeOBJ with object-oriented programming. The other papers deal with environments for writing and verifying specifications written in CafeOBJ. Underlying those papers are two major considerations: user interfaces for manipulating specifications, and systematic supports for proofs. All the environments explained in the papers assume and support distributed computing, and de facto standard network technologies, such as WWW and http, are incorporated.

Lavishly illustrated and a joy to read, this authoritative reference work on the North American continent's railroads covers the U.S., Canadian, Mexican, Central American, and Cuban systems. The encyclopedia's over-arching theme is the evolution of the railroad industry and the historical impact of its progress on the North American continent. This thoroughly researched work examines the various aspects of the industry's development: technology, operations, cultural impact, the evolution of public policy regarding the industry, and the structural functioning of modern railroads. More than 500 alphabetical entries cover a myriad of subjects, including numerous entries profiling the principal companies, suppliers, manufacturers, and individuals influencing the history of the rails. Extensive appendices provide data regarding weight, fuel, statistical trends, and more, as well as a list of 130 vital railroad books. Railfans will treasure this indispensable work.

Until now, anyone conducting industrial combustion tests had to either rely on old methods, go scurrying through the literature to find proven applicable methodologies, or hire top-shelf consultants such as those that work for cutting-edge companies like John Zink. Manufacturers can no longer take industrial combustion for granted. Air and noise po

Computational Intelligence (CI) has emerged as a rapidly growing field over the past decade. This volume reports the exploration of CI frontiers with an emphasis on a broad spectrum of real-world applications. Such a collection of chapters has presented the state-of-the-art of CI applications in industry and will be an essential resource for professionals and researchers who wish to learn and spot the opportunities in applying CI techniques to their particular problems.

Includes subject area sections that describe all pertinent census data products available, i.e. "Business--trade and services", "Geography", "Transportation," etc.

Twice a year, the OECD Economic Outlook analyses the major trends that will mark the next two years. This issue's special features cover the 9/11 terrorist attack, the mildness of the recent downturn, internationalisation of production, impact of regulations and taxing foreign exchange transactions.

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